

IN THE CLAIMS

1. (Original) A system for locating a mobile unit (4) including:
 - means (3₁, 3₂, 3₃, 3₄, 3₅) for transmitting a first signal (24₁) at a relatively high power (P₁);
 - means (3₁, 3₂, 3₃, 3₄, 3₅) for transmitting a second signal (24₂) at a predetermined, relatively low power (P₁);
 - means (4) for receiving said first signal;
 - means (4) for determining a first signal strength of said first signal at said means for receiving said first signal;
 - means (4) for determining whether said first signal strength exceeds a relatively low threshold level (P_A) so as to determine whether service may be provided;
 - means (4) for receiving said second signal;
 - means (4) for determining a second signal strength of said second received at received at said means for receiving said second signal;
 - means (4) for determining whether said second signal strength exceeds a relatively high threshold level (P_B) so as to locate the mobile unit within a known distance (R) of said means for transmitting said second signal.
2. (Currently amended) A system according to Claim 1, wherein said relatively high power (P₁) is at least 0 dBm.
3. (Currently amended) A system according to Claim 1 or 2, wherein said relatively high power (P₁) is at least 6 dBm, 13 dBm or 20 dBm.
4. (Currently amended) A system according to ~~any preceding Claim~~Claim 1, said relatively low power (P₂) is no more than 0 dBm.
5. (Currently amended) A system according to ~~any preceding Claim~~Claim 1, wherein said relatively low threshold level (P_A) is no more than -85 dBm.

6. (Currently amended) A system according to ~~any preceding Claim~~Claim 1, wherein said relatively high threshold level (P_A) is no less than -65 dBm.

7. (Currently amended) A system according to ~~any preceding claim~~Claim 1, wherein said means ($3_1, 3_2, 3_3, 3_4, 3_5$) for transmitting said first and second signals transmit said first and second signals ($24_1, 24_2$) at different times.

8. (Currently amended) A system according to ~~any preceding Claim~~Claim 1, which is a wireless local area network (1).

9. (Original) A system according to Claim 8, wherein said means ($3_1, 3_2, 3_3, 3_4, 3_5$) for transmitting said first signal (24_1) is an access point.

10. (Currently amended) A system according to Claim 8 ~~or 9~~, wherein said means ($3_1, 3_2, 3_3, 3_4, 3_5$) for transmitting said second signal (24_2) is an access point.

11. (Currently amended) A system according to ~~any one of Claims 8 to 10~~Claim 8, wherein said means (4) for receiving said first signal (24_1) is a mobile unit.

12. (Currently amended) A system according to ~~any one of Claims 8 to 11~~Claim 8, wherein said means (4) for receiving said second signal (24_2) is a mobile unit.

13. (Original) A system according to Claim 8, wherein said means (4) for transmitting said first signal (24_1) is a mobile unit.

14. (Currently amended) A system according to Claim 8 ~~or 13~~, wherein said means (4) for transmitting said second signal (24_2) is a mobile unit.

15. (Currently amended) A system according to ~~any one of Claims 8, 13 or 14~~Claim 8, wherein said means (3₁, 3₂, 3₃, 3₄, 3₅) for receiving said first signal (24₁) is an access point.

16. (Currently amended) A system according to ~~any one of Claim 8, 13, 14 or 15~~Claim 8, wherein said means (3₁, 3₂, 3₃, 3₄, 3₅) for receiving said second signal (24₂) is an access point.

17. (Cancel) ~~A system substantially as hereinbefore described with reference to Figures 1 to 7 of the accompanying drawings.~~

18. (Original) A system for locating a mobile unit (4) including:
a first transmitter (9, 10) for transmitting a first signal (24₁) at a relatively high power (P₁);
a second transmitter (9, 10) for transmitting a second signal (24₂) at a predetermined, relatively low power (P₂);
a first receiver (18) for receiving said first signal;
a first detector (17, 16) for determining a first signal strength of said first signal at said first receiver;
a first controller (19) for determining whether said first signal strength exceeds a relatively low threshold level so as to determine whether service may be provided;
a second receiver (18) for receiving said second signal;
a second detector (17, 16) for determining a second signal strength of said second signal at said second receiver;
a second controller (19) for determining whether said second signal strength exceeds a relatively high threshold level so as to locate the mobile unit within a known distance of said means for transmitting said second signal.

19. (Currently amended) An access point ($3_1, 3_2, 3_3, 3_4, 3_5$) configured for use in the system according to ~~any preceding Claim~~Claim 1.